**KE 750 B + KE 18500 B**

* included in the maintenance kit - ** included in the assembled bush

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### Anti scratch nylon tube

To set the bushing into the cylinder body to release the retaining C-ring.

### Reassembly guiding tube for the bushing + reassembly positioning tube for the retaining C-ring

### Torque wrench for one way valve Cod. 59VU02*

### Table manual press for easy gas leakage.

### Special Springs gas detector for M6 thread Cod. 58EM06

### Multi device for charging, discharging and adjust gas pressure Cod. 39DMCILA

### Discharging device. BLUE side for M6 hole GOLD side for 1/8"G hole Cod. 39DDS01A

### Charging hole 1/8"G (KE12000B + KE18500B)

### Retaining C-ring removal tool. Cod. 39DMCPVA

### 3 meters of high pressure hose, 1 female Cejn quick fit, 1 ON/OFF valve, 1 shut off valve and 1/2-20 UNF male coupling to connect to the nitrogen bottle.

### Retaining C-ring removal tool. Cod. 39DMCILA

### Multi device for charging, discharging and adjust gas pressure

### Discharging device. BLUE side for M6 hole GOLD side for 1/8"G hole

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### Not self-contained version

### Charging hole 1/8"G, 3 meters of high pressure hose, 1 female Cejn quick fit, 1 ON/OFF valve, 1 shut off valve and 1/2-20 UNF male coupling to connect to the nitrogen bottle.

### The complete assembled kit along with this step-by-step service manual is result of Special Springs research for the most useful maintenance operation for Special Springs nitrogen gas cylinders. Few minutes and the Special Springs nitrogen gas cylinders are regenerated as new one.

### Special Springs along with its own global network are pleased to help you anytime for the best result of your work.

### Before starting any maintenance work carefully check if the rod or the body of the cylinder are damage or wear. If yes, it is recommended to replace the cylinder immediately and do not proceed with the maintenance operation.

### Before starting any maintenance work carefully check the maintenance kit to correspond to the model of cylinder for which is required.

### Instructions and pictures of this step-by-step manual could slightly differ from practise.

### Instructions and pictures of this step-by-step manual could slightly differ from practise.

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### All Special Springs step-by-step manuals are available for download from our web site: www.specialsprings.com

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I. SKUDO REMOVAL.

1. Manually remove the protective cap.
2. 58CD01 - remove the retaining rings with the Guide Ring Tool.
3. Secure the rear flange by using the appropriate tool.

II. DISCHARGING + VALVE REMOVAL for self-contained cylinders.

4. Thread ODD discharge tube into the charging port and fully open the cylinder.
5. 58KNIPEX - Use T-handle M4 thread.
6. Position the retaining C-ring into the groove.
7. 58KNIPEX - Use T-handle M6 thread.
8. 58KNIPEX - Use T-handle M8 thread.

III. EXTRACTION OF THE RED SEAL.

9. Remove the red seal from the valve body.
10. Be careful not to lose parts.

IV. DISCHARGING non self-contained cylinders.

11. Use the appropriate removal tool.
12. Be careful not to damage the rubber seal.

V. RETAINING RING REMOVAL.

13. Position the anti-lockout ring.
14. Use the appropriate too.

VI. PISTON ROD + CARTRIDGE REMOVAL.

15. Manually insert the piston rod through the cylinder body.
16. 58CE03 - Use KE 1800 B T-handle.
17. 58CE03 - Use KE 1000 B T-handle.
18. Carefully remove the piston rod from the cylinder body.

VII. CLEANING AND INSPECTION.

19. Lubricate the cylinder body.
20. 58CD01 - Use nylon removal tube.

VIII. VALVE REASSEMBLY.

22. Secure the valve assembly with the appropriate tool.

IX. REASSEMBLY OF PISTON ROD + CARTRIDGE.

23. Lubricate the piston rod with a special lubricant.
24. Insert the bushing on the piston rod for an easy and safe reassembly.

X. REASSEMBLY OF THE RETAINING C-RING.

25. Position the retaining C-ring into the groove.
26. 58CD01 - Use KE 1800 B T-handle.
27. 58CD01 - Use KE 1000 B T-handle.

XI. REASSEMBLY of PISTON ROD + CARTRIDGE.

28. Position the piston rod into the cylinder body.
29. 58CD01 - Use KE 1800 B T-handle.
30. 58CD01 - Use KE 1000 B T-handle.
31. Manually insert the assembly.
32. Adjust the maximum pressure of the charging unit.

XII. CHARGING AND FORCE TEST. for self-contained cylinders.

33. Check the valve pressure in the charging hole by using the appropriate special gas detector.
34. Adjust the maximum pressure.
35. If it is always recommended to check leaks on the upper side of the cylinder after the maintenance work.

XIII. CHARGING AND FORCE TEST. for non self-contained cylinders.

36. Check the valve pressure in the charging hole by using the appropriate special gas detector.
37. Use the appropriate tool for an easy and safe work.

XIV. SKUDO REASSEMBLY.

38. Position the valve assembly in the correct position.
39. Adjust the maximum pressure.

*NOTE: Except for disassembly, the volume of air is indicated for each step.***